

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 03112486  
PUBLICATION DATE : 14-05-91

APPLICATION DATE : 22-09-89  
APPLICATION NUMBER : 01247696

APPLICANT : OLYMPUS OPTICAL CO LTD;

INVENTOR : TAKIGUCHI MASAFUMI;

INT.CL. : C12N 15/12 C07H 21/04 C12N 5/10

TITLE : HLA-B35 GENE AND DNA PROBE, AND TRANSFORMANT CELL

ATGCGGGTCAAGCGCGCGCGGAAACCGTCTCTCTGCTCT  
GGGGGGCAGTGGCCCTGACCGAGACCTGGGCGGGTCCCA  
CTCCATGAGGTATTTCTACACCGCCATGTCCCGCGCGGG  
CGCGGGGAGCGCGCTTCATCGCAGTGGCTACGTGGAGC  
ACACCCAGTTCGTGAGGTTGGACAGCGACCGCGGAGTCC  
GAGGACGGAGCGCGCGCGCGCATGGATAGAGCAGGAGGG  
CGCGAGTATTTGGCAGCGGAACACACAGATCTTCAAGACCA  
ACACACAGACTTACCGAGAGAGCGTGGCGAACCTCGCGG  
CTACTACAACAGACCGAGCGCGGGTCTCACATCATCCAG  
AGGATGTATGGCTGGCAGCTGGGCGCGGACGGCGCGCTCC  
TCCGCGGGCATGACCAGTCCGCGCTACGACCGCAAGGATTA  
CATCGCCCTGAACGAGGACCTGAGCTCTTGGACCGCGCGG  
CACACCGCGGCTCAGATCAACCGAGCGCAAGTGGGAGGCGG

ABSTRACT : PURPOSE: To provide the title gene having exon expressed by a specific base sequence, useful for the research, assay and diagnosis of HLA-B35 alloantigen.

CONSTITUTION: The objective HLA-B35 gene having exon expressed by a base sequence of the formula (where the description of bases from 521th to 1089th are omitted) made up of 1089 bases (A is adenine; C is cytosine; G is guanine; T is thymine). When labelled with a marker, cDNA coinciding with part of the base sequence of the present HLA-B35 gene can be applied to DNA probe to be used for DNA typing. Said marker is e.g. peroxidase, iron porphyrin derivative. Moreover, since the HLA-B35 gene is capable of coding HLA-B35 antigen, transformant cells capable of manifesting HLA-B35 antigen can be obtained by transducing this gene into eucaryote cells.

COPYRIGHT: (C) JPO